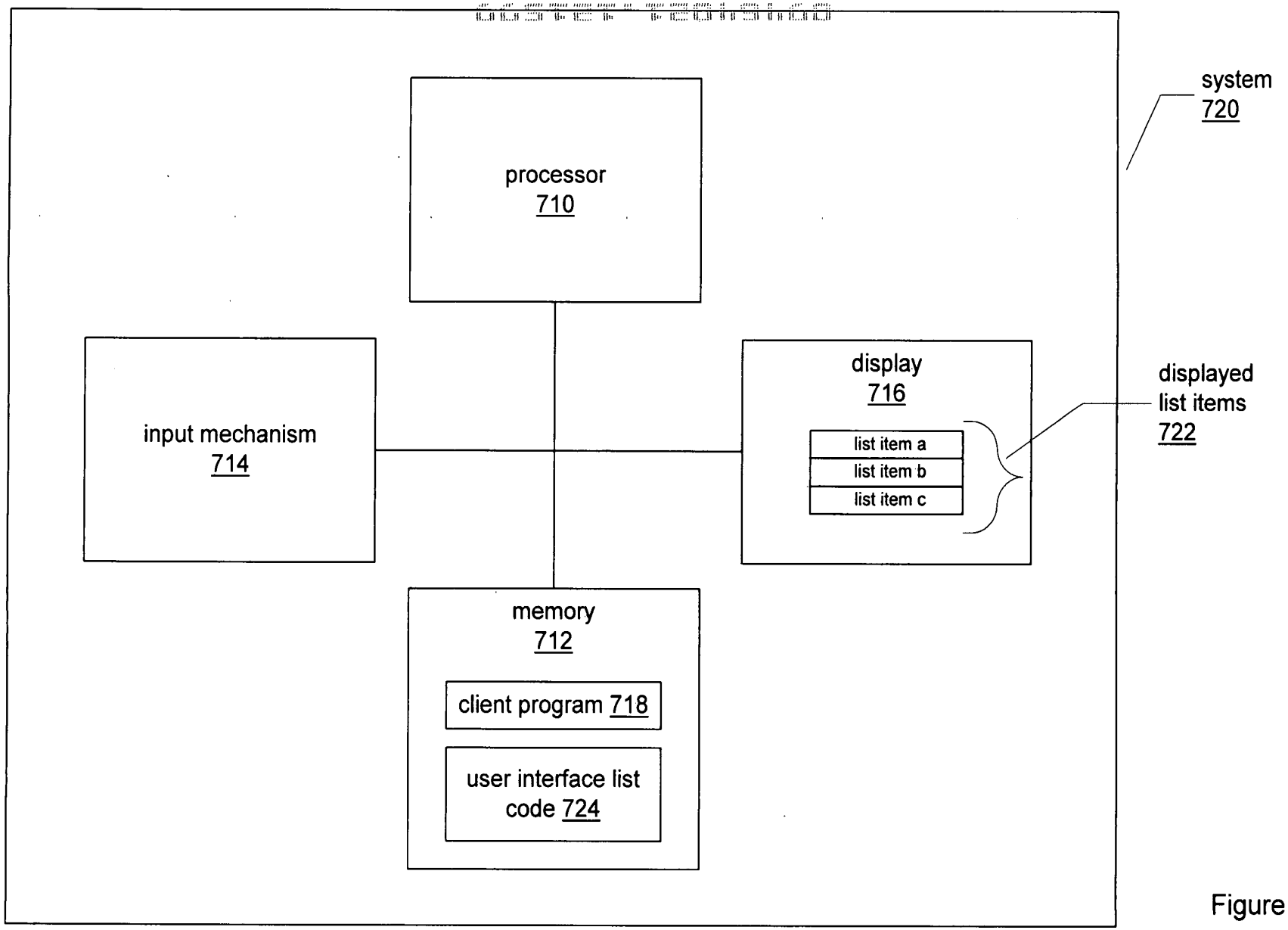
system
720
processor
710
input mechanism
714
display
716
list item a
list item b
list item c
displayed
list items
722
memory
712
client program 718
user interface list
code 724

Figure 1

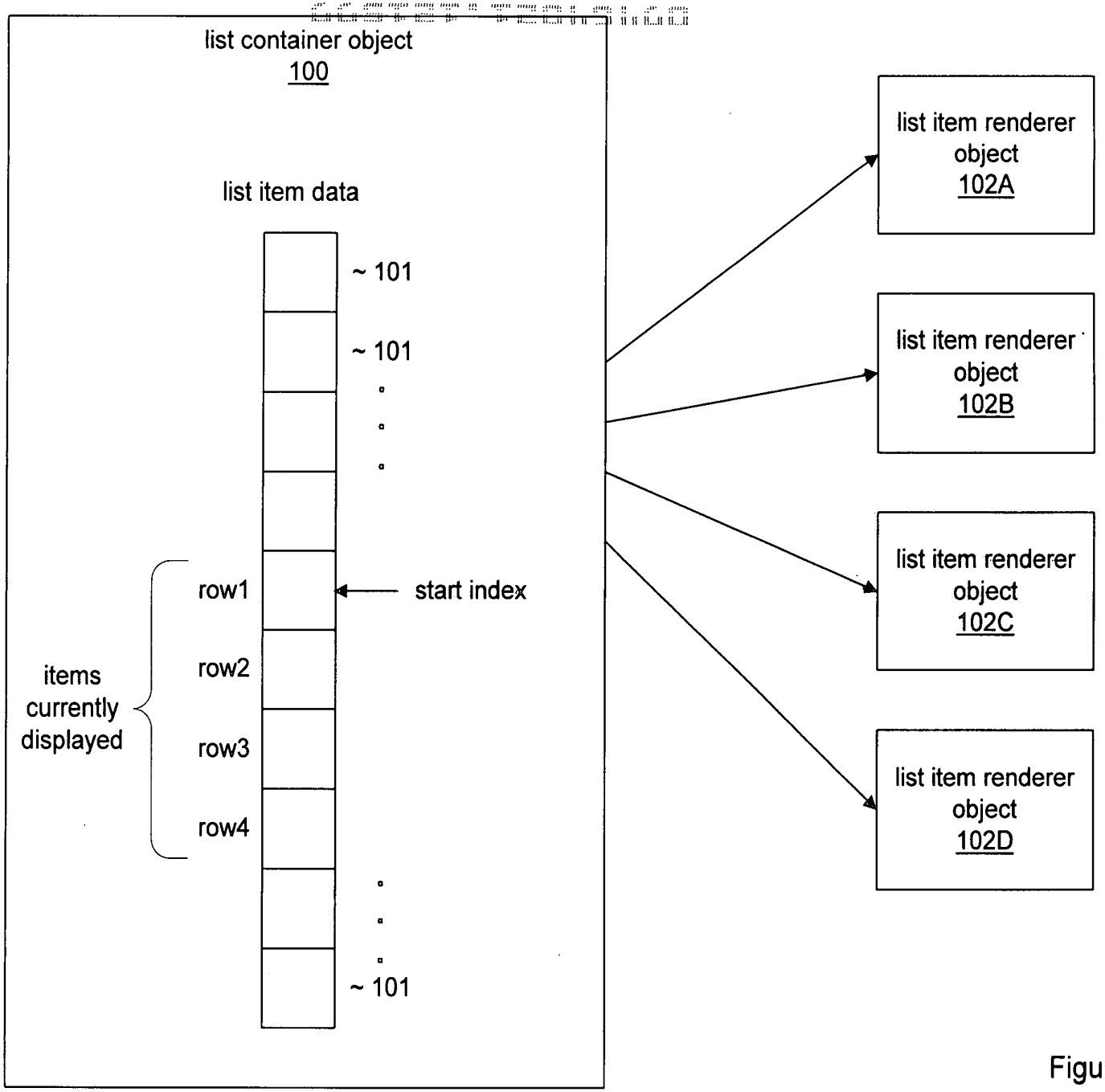
list container object
100
list item data
~ 101
~ 101
~ 101
row1
row2
row3
row4
start index
items
currently
displayed
list item renderer
object
102A
list item renderer
object
102B
list item renderer
object
102C
list item renderer
object
102D

Figure 2

list item renderer object
102

```
public interface ItemRenderer {

        /* sets the data to render */
        public void SetData (Object data);

        /* gets the data being rendered */
        public Object getData ();

        /* sets the visibility state */
        public void setVisible (boolean visible);

        /* gets the visibility state */
        public boolean isVisible ();

        /* gets the component to which data is rendered */
        public java.awt.Component getRenderComponent ();

}
```

Figure 3

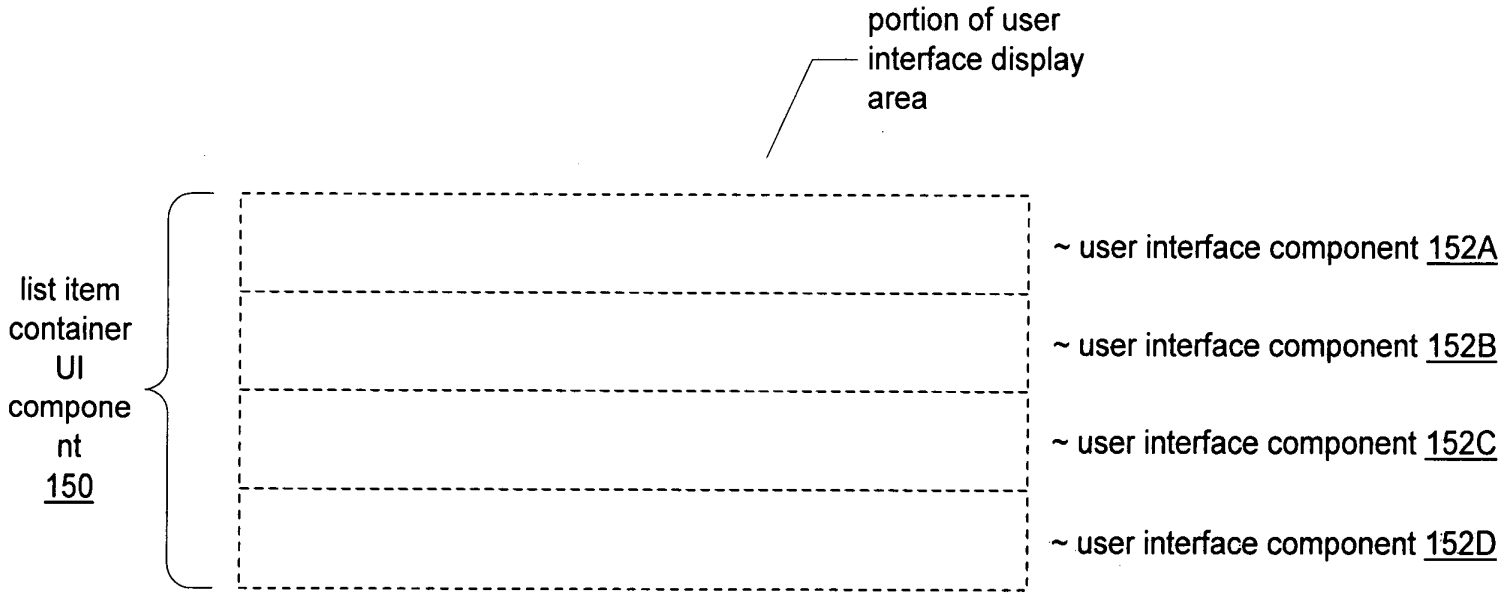
portion of user interface display area
list item container UI component 150
~ user interface component 152A
~ user interface component 152B
~ user interface component 152C
~ user interface component 152D

Figure 4

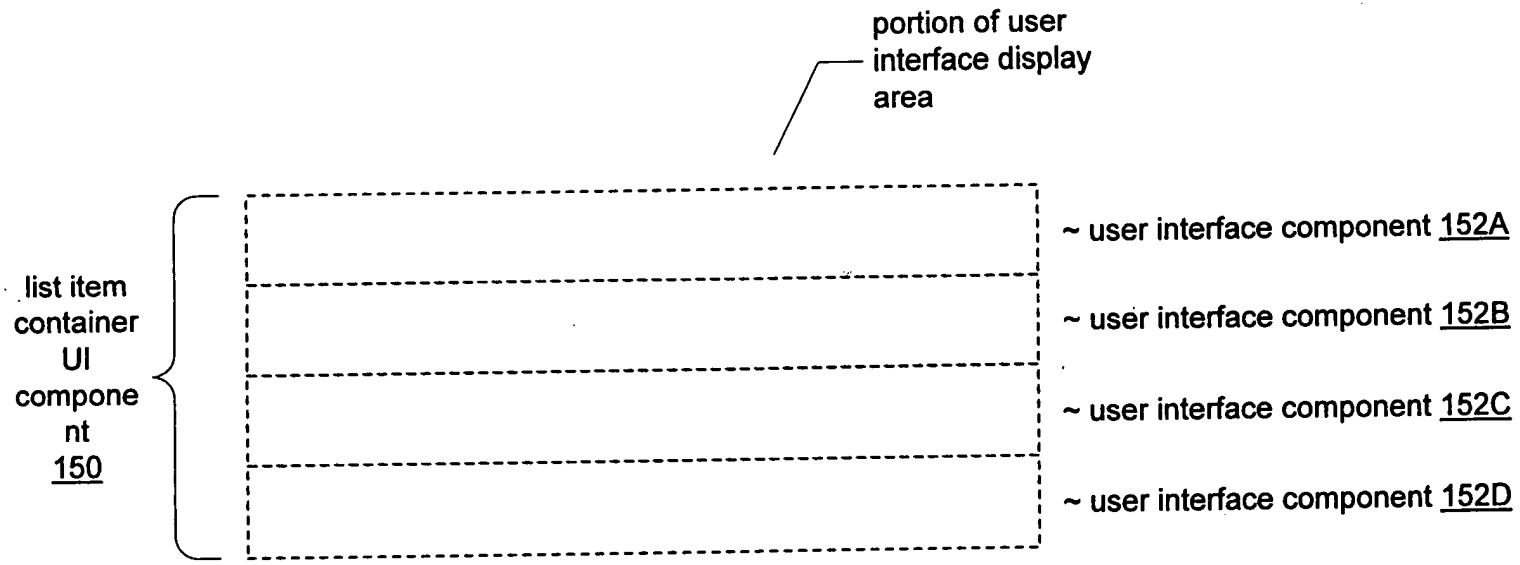
portion of user interface display area
list item container UI component 150
~ user interface component 152A
~ user interface component 152B
~ user interface component 152C
~ user interface component 152D

Figure 5

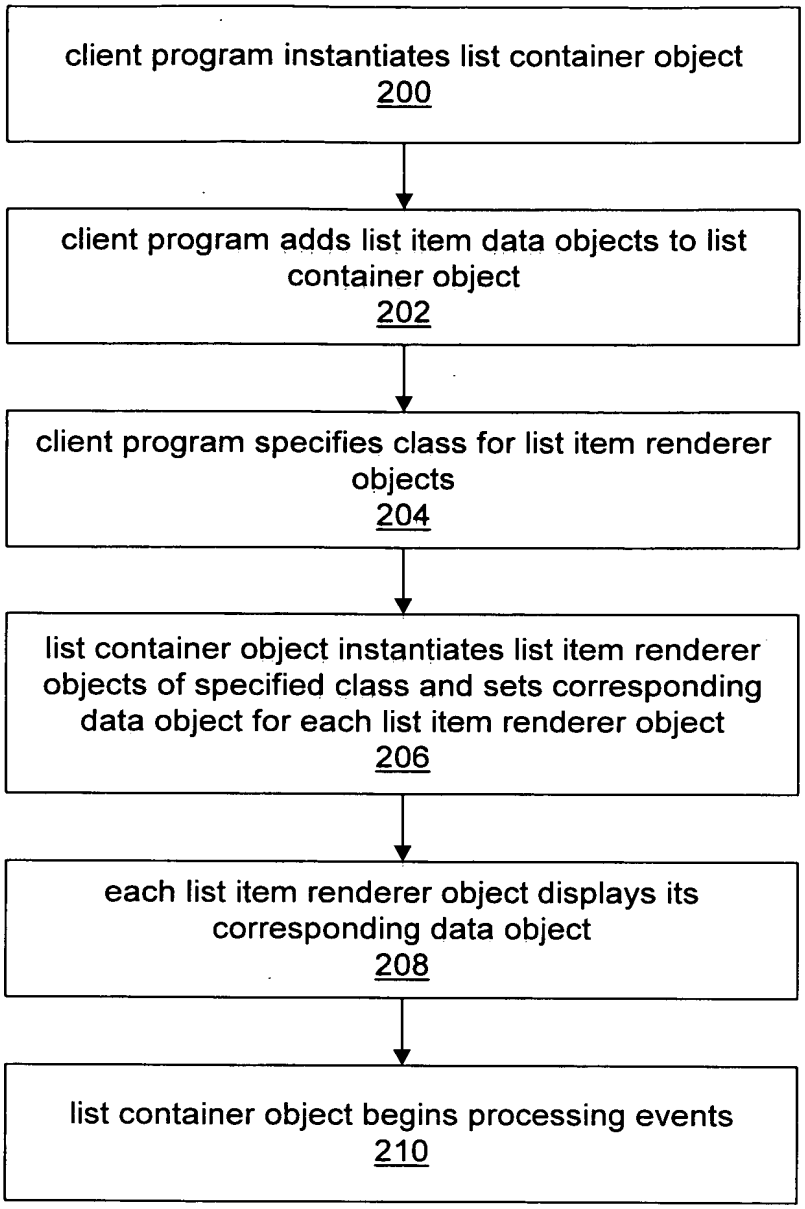
client program instantiates list container object
200
client program adds list item data objects to list container object
202
client program specifies class for list item renderer objects
204
list container object instantiates list item renderer objects of specified class and sets corresponding data object for each list item renderer object
206
each list item renderer object displays its corresponding data object
208
list container object begins processing events
210

Figure 6

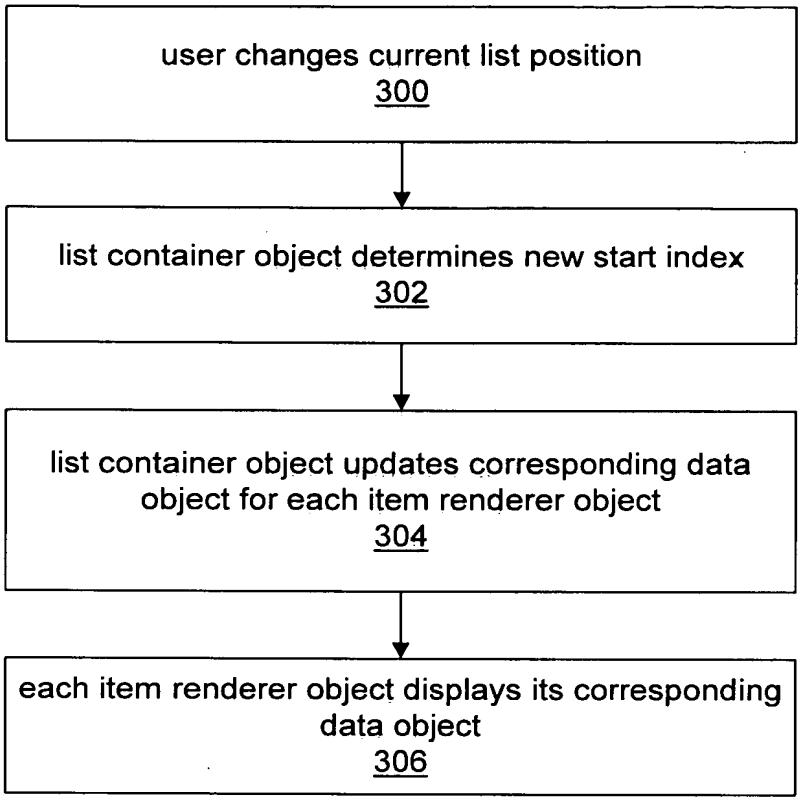
user changes current list position
300
list container object determines new start index
302
list container object updates corresponding data object for each item renderer object
304
each item renderer object displays its corresponding data object
306

Figure 7